PATENT APPLIC ON TRANSMITTAL LETTER

(Large Entity)



TO THE ASSISTANT COMMISSIONER FOR PATENTS

Transmitted herewith for filing under 35 U.S.C. 111 and 37 C.F.R. 1.53 is the patent application of:

Cnr	Christopher H. Saie, et al.							
For:	METHOD AND A	APPARATUS FO	R REMOTE DE	LIVERY AN	D MANIPULATIO	ON OF A MINIA	TURE TOOL	
AD.	JACENT A WORK	PIECE IN A RE	STRICTED SPA	CE				
Enc	Enclosed are:							
	Certificate of Mailing with Express Mail Mailing Label No.							
X	Eight (8) sheets of drawings.							
	A certified copy of	a ·	a	application.				
X	Declaration	🗷 Signed.	Unsigned.					
X	Power of Attorney							
	Preliminary Amend							
X	Other: Request for	r NonPublication	1					
IJ.		.=-						
			CLAIMS AS	S FILED				
574.5	For	#Filed	#Allowed	#Extra	Rate		Fee	
Total Claims		36	- 20 =	16	x \$18.00		\$288.00	
Indep. Claims		3	- 3 =	0	× \$80.00		\$0.00	
<u> </u>	Multiple Dependent Claims (check if applicable)					\$0.00		
						BASIC FEE	\$740.00	
7 72					TOTAL	FILING FEE	\$1,028.00	
	A check in the amo	ount of	to co	ver the filing	fee is enclosed.			
×	The Commissioner			_		. 01-2752		
]	as described below	-	_		posit / tooodiit 140	. 01-2752		
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	Charge an	y additional filin	g fees required u	inder 37 C.F.	R. 1.16 and 1.17.			
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	pursuant to	37 C.F.R. 1.31	1(b).					
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Date	ed: March 6, 2002				Sexan	Well.		
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Betty A. Winchester

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U. S. Department of Energy

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Christopher H. Sale, et al.

REQUEST AND CERTIFICATION UNDER 35 U.S.C. 122(b)(2)(B)(i)

First Named Inventor Method and apparatus for remote delivery and Title manipulation of a miniature tool adjacent a work

Atty Docket Number

S-94,529

I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b).

March 6, 2002

Date

Signature

Virginia B. Caress, Reg. No. 34062

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application upon filing.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant must notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).

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Cam

For the Convenience of the Examiner

Key to Figures

5	[Line 5-5 in Fig 4 refers to Fig 5]
10	Closure block
12	Reactor pot
14	Lid
16	Closure seal
18	Small opening
20	Tool carrier
22	Carriage assembly
24	Accumulator assembly
26	Remote hydraulic actuator assembly
27	Secondary Operating Actuator
28	Arcuate frame
29	Upper arcuate slot
30	Delivery chain
31	Lower arcuate slot
32	Stabilizers
33	Side wall
Р	Probe
34	Tracks

DOE Docket S-94,529

	Key to	Key to Figures				
	36	Track				
	37	Cam				
મુંતાનું મુક્તાનું મેતાને ત્રાતાને ભાગમ પાતાનું ત	38	Arcuate recess				
	40	Hydraulic cylinder (not shown. Next to and identical to 42)				
	42	Hydraulic cylinder				
	44	Double acting piston				
	45	Double acting piston				
	46	Hydraulic line for cylinders 40 and 86				
	47	Carrriage assembly inlet/outlet port for hydraulic line 46				
	48	Hydraulic line for cylinders 40 and 86				
tenn mar nor tent me mer	49	Carriage assembly inlet/outlet port for hydraulic line 48				
	50	Hydraulic line for cylinders 42 and 88				
	51	Carriage assembly inlet/outlet port for hydraulic line 50				
	52	Hydraulic line for cylinders 42 and 88				
	53	Carriage assembly inlet/outlet port for hydraulic line 52				
	54	Holes				
	56	Conventional probe connections				
	58	Conventional probe connections				
	Υ	Direction of movement of probe P				
	Z	Direction of pivot in figure 7				
	60	Top portion of track 34				

Key to Figures

02	Top portion of track 36
70	Actuator body
72	Guide plate
74	Guide pin
76	Guide pin
78	Skew adjuster
80	Lead screw
82	Double acting piston
84	Double acting piston
86	Internal cylinder
88	Internal cylinder
90	Remote hydraulic actuator assembly inlet/outlet port for hydraulic line 46
92	Remote hydraulic actuator assembly inlet/outlet port for hydraulic line 48
94	Remote hydraulic actuator assembly inlet/outlet port for hydraulic line 50
96	Remote hydraulic actuator assembly inlet/outlet port for hydraulic line 52
MA	Manipulator apparatus
110	Remote operating system
112	Base plate
114	Handle
116	Handle
120	Chambered Manifold block

Key to Figures

122	Pressure gage
124	Three way flow control valve for hydraulic line 46
126	Three way flow control valve for hydraulic line 48
128	Three way flow control valve for hydraulic line 52
130	Three way flow control valve for hydraulic line 50
132	Three way flow control valve for hydraulic line 48
134	Three way flow control valve for hydraulic line 52
136	Fluid fill valve
138	Air control valve
140	Pulsation damper
142	Accumulator assembly inlet/outlet port for three way control valve 124
144	Accumulator assembly inlet/outlet port for three way control valve 126
146	Accumulator assembly inlet/outlet port for three way control valve 128
148	Accumulator assembly inlet/outlet port for three way control valve 130
150	Accumulator assembly inlet/outlet port for three way control valve 132
152	Accumulator assembly inlet/outlet port for three way control valve 134
154	Accumulator assembly inlet/outlet port for fluid fill valve 136
156	Accumulator assembly inlet/outlet port for air control valve 138